

WHAT IS CLAIMED IS:

1. An auto-test system for testing the stability of an object under test in a testing chamber, comprising:

at least one programmable power supply for providing at least one
5 operating voltage for the object under test;

a temperature setting device mounted in the testing chamber for controlling the temperature in the testing chamber and thereby setting an operating temperature; and

a control computer for setting the programmable power supply and
10 thereby adjusting the operating voltage, and setting the temperature setting device and thereby adjusting the operating temperature;

wherein the object under test operates at the operating voltage and the operating temperature, and then outputs a testing result to be recorded by the control computer.

15 2. The auto-test system as claimed in claim 1, wherein the at least one programmable power supply includes: a 12-volt programmable power supply, a 5-volt programmable power supply, and a 3.3-volt programmable power supply.

20 3. The auto-test system as claimed in claim 2, wherein the at least one operating voltage provided by the 12-volt programmable power supply is 12 volts, 5% deviation from 12 volts, or 10% deviation from 12 volts.

4. The auto-test system as claimed in claim 2, wherein the at least one operating voltage provided by the 5-volt programmable power supply is 5 volts, 5% deviation from 5 volts, or 10% deviation from 5 volts.

5. The auto-test system as claimed in claim 2, wherein the at least one operating voltage provided by the 3.3-volt programmable power supply is 3.3 volts, 5% deviation from 3.3 volts, or 10% deviation from 3.3 volts.

6. The auto-test system as claimed in claim 1, wherein the operating temperature ranges from -10 degrees C to 50 degrees C.

7. The auto-test system as claimed in claim 1, wherein the control computer includes:

a first control interface for setting the at least one programmable power supply and thereby adjusting the at least one operating voltage;

10 a second control interface for setting the temperature setting device and thereby adjusting the operating temperature; and

a third control interface for transmitting information to the object under test or receiving information from the object under test.

8. The auto-test system as claimed in claim 7, wherein the first control interface is GPIB, USB, or IEEE 1394.

9. The auto-test system as claimed in claim 7, wherein the second control interface is RS-32, GPIB, USB, or IEEE 1394.

10. The auto-test system as claimed in claim 7, wherein the third control interface is a network interface card.

20 11. The auto-test system as claimed in claim 7, wherein the object under test is a personal computer, a desktop computer, a portable computer, or a server.